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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/690,644	10/23/2003	Katsuhiko Yoshida	244230US-2S CONT	9147
22850	7590 06/22/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			NGUYEN, CHAU N	
1940 DUKE S	STREET IA, VA 22314		ART UNIT PAPER NUMBER	
	, , , , , , , , , , , , , , , , , ,		2831	
		DATE MAILED, 04 02 0005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	U				
Office A. C. Commons	10/690,644	YOSHIDA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Chau N. Nguyen	2831					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timel the mailing date of this or D (35 U.S.C. § 133).					
Status-							
1) Responsive to communication(s) filed on 06 M	ay 2005.						
2a) This action is FINAL . 2b) ⊠ This	action is non-final.	•					
,	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims	•						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-18</u> is/are rejected.							
·	•						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex-			• •				
	anniner. Note the attached Office	Action of form F i	0-132.				
Priority under 35 U.S.C. § 119							
 12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents 2. ☐ Certified copies of the priority documents 	have been received.						
Copies of the certified copies of the prior	ity documents have been receive	ed in this National	Stage				
application from the International Bureau	, , , , , , , , , , , , , , , , , , , ,						
* See the attached detailed Office action for a list of	of the certified copies not receive	d.					
Attachment(s)							
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite	1450)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>5/6/05</u> .	5) Notice of Informal P	ателт Арріісайоп (РТС)- 134)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mori et al. (6,242,825) in view of Ford (2,320,922).

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Mori et al. discloses a coil for an electric rotating machine (Fig. 4) comprising a conductor configured by bundling a plurality of square strands and stacking the square strands like a coil with Roebel transposition, a mica tape (Fig. 5) which is wound a plurality of layers around on an outer surface of the conductor and made up a mica paper (31) and a cloth backing material (32), an insulation layer formed with impregnating and curing resin (col. 7, lines 51-55) between the wound layers of the mica tape, and inorganic particles (col. 8, lines 1-9) supported with the mica tape.

Mori et al. does not specifically disclose an adhesive containing a glue insoluble in the impregnated resin being used to support the particles with the mica tape (re claims 1, 2, 13, 16). Ford discloses high voltage coil insulation comprising an adhesive composition containing a glue insoluble in a dielectric material, wherein the glue is polyvinyl alcohol or polyvinyl acetal (page 2, lines 37-74) (re claims 3, 5, 7, 9, 11). It would have been obvious to one skilled in the art to use the adhesive as taught by Ford in the mica tape of Mori et al. to secure the inorganic particles of Mori et al. within the mica tape and to bond the turns of the mica tape to each other.

Mori et al. also discloses the inorganic particles including aluminum nitride (re claim 6), aluminum oxide (re claims 14 and 17), or boron nitride (re claims 15

and 18). Re claims 4, 5, 8, 10 and 12, it would have been obvious to one skilled in the art to choose a suitable amount of polyvinyl-based polymer or polyvinyl alcohol in the adhesive, including 0.5wt% to 5wt%, to meet the specific use of the resulting tape since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable range involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Response to Arguments

4. Applicant's arguments with respect to claims 1 and 2 have been considered but are most in view of the new ground(s) of rejection.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau N. Nguyen whose telephone number is 571-272-1980. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-2800 ext 31. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chau N Nguyen Primary Examiner

Chaungun

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